AUTHOR INDEX

Cassidy, H. G., 1

Hirohara, H., 295

Ise, N., 295

Koenig, J. L., 59

Lyons, A. R., 251

Tsuruta, T., 179



SUBJECT INDEX

Aluminum alkyls, 228
Amide modes, 89, 100
Amino acids, structures, 63, 66

α-Amino acid N-carboxylic acid anhydride, 224
Ammonium compounds, quaternary, 234
Azobenzene derivatives, 10

Bernoulli trial step, 187, 193, 245

Calcified tissue, 133 Carbohydrates, 165, 171 Cellulose, 25, 30 \alpha-Chymotrypsin, 129 Chymotrypsinogen, 130 Collagen, reconstituted, 133 \alpha-Conformation, 97 Copolymerization, 281, 285

Deoxyribonucleic acid, 159 Dissociation constants, 308, 310

Electric field effect, 330 Enantiomorphic catalyst site, 190, 198, 238, 240, 245 Enzyme analogs, 23, 30

Fibers with redox properties, 23, 25, 30 Free energy change of substituted quinones, 35 Free ions, 300, 303, 305, 310, 315

α-Helical conformation, 82 Hydroquinone-formaldehyde condensates, 12, 32

Imino acids, structures, 67, 70
Intramolecular complexing of hydroquinones, 434
Ion pairs
rate constant of, 300, 310, 321, 322
reactivity of, 316
structure, 317
Ionic species, 296
IR band shift, 40
2-Isopropenylanthraquinone, 8, 30

Lysozyme, 122

Markov chain model, 187 Membrane electrodes, 25 Methacrylic ester, 239 Midpoint potential, 33 Monomeric material, 4, 8, 33

Nickel carboxylate-trialkylphosphine, 233 Nuclear magnetic resonance spectra, of poly (trans PO-1-d), 202, 205 Nucleic acids, 133 Nucleosides, 140 Nucleotides, 140

α-Olefin, 234 Oligomers, 19, 36, 40, 42 Oligopeptides, structures, 77, 79 Polarization measurement, 83 Poly (dat), 157 Poly (A+U), 157 Poly (A + 2U), 158 Poly (G + C), 159 Polyadenylic acid, 146 Polyacrylamide, 30 Poly-L-alanine, 89 Polyamides, 12, 18, 30, 32 Poly-γ-benzyl-L-glutamate, 93 Poly (t-butylethylene oxide), 217 Polycarbonates, 12, 15, 31, 44 Polycytidylic acid, 146 Polyesters, 12, 14, 31 Polyferrocenylene, 11 Polyglycine, 101, 105 Polyguanylic acid, 154 Polyhydroquinone sulfones, 11 Poly-L-leucine, 93 Poly-L-lysine, 96 Polymeric charge transfer interaction, 43 49 Polymerization dride, 220, 221, 224, 228, 233, 234

olymerization α-amino acid N-carboxylic acid anhydride, 220, 221, 224, 228, 233, 234 asymmetric selective, 183, 201, 202, 211, 222, 224, 236, 243 — synthesis, 184, 243 — transformation, 183, 243 t-butylethylene oxide, 217 episulfide, 194, 211 epoxide, 194 free radical-initiated, 252, 253

free radical-initiated, 252, 253 ionic-initiated, 254-256, 262-264, 267, 268 mechanism, 207, 300, 304, 306, 307, 310,

321, 322 nonasymmetric selective, 185 olefinic compounds, 234 radical chain, 11 rate constant, 325, 327, 329 ring opening, 194, 220 stereoselective, 181, 198, 211, 234, 240, 243

stereospecific, 181, 190, 193, 194, 243 steric control mechanism, 186, 187, 190, 220, 224, 245

acrolein, 26 antraquinone, 19 chelating, 26 condensation, 12 electron-exchange, 2 electron-transfer, 2 hydrophilic, 22 hydroquinone, 4 inorganic, 27 ion-exchange, 25 oxidation-reduction, 2 phenol formaldehyde, 19 photochromic, 10 redox, 20 thermally conductive, 20 thiol-containing, 12, 23 thionine, 10 vat dye, 26

Polymers

- Poly(methyl vinyl ether), 193, 194, 240
- Polynucleotides, synthetic, 146 Polypeptides, 115, 117
- Poly-L-proline, 108
- Poly(propylene oxide), 195, 198, 202
 Poly(propylene oxide), 205
 Poly(trans-propylene oxide-1-d), 203
 Poly((R)-propylene oxide), 206
 Poly(propylene sulfide), 211
 Poly(propylene-2-d, sulfide), 214
 Polyradicals, 11

- Poly-L-serine, 103 Polystyrene, chloromethylated, 21, 30
- Polyurethanes, 12, 17, 31 Polyuridylic acid, 155 Poly-L-valine, 101

- Polyvinyl alcohol, 23 Polyvinyl ketones, 270, 288, 289 Protecting groups, 4, 5, 11 Purine bases, 133, 134, 138, 139 Pyrazoloquinone, 9, 30 Pyrimidine bases, 133, 138, 139
- Quinone diols, 12

- Raman spectra group character, 82 Random coil configuration, 113 Redox function, 30, 32 Ribonuclease, 125
- Ribonucleic acid, 161 Rubredoxin, 132
- Stereochemistry, of polymerization of epoxide episulfide, 194, 211, 217 Steric control mechanism, 186 Stereospecific initiators, 228
- Styrene derivatives, reactivity, 322, 323 Tacticity of poly(propylene oxide), 202 Thiazine, 10, 20, 23 Triple ions, 299, 303, 306
- Vinyl ether, 239 hydroquionone, 27, 29 ketones, 251 naphthoquinone, 8
- Zinc alkyl-alcohol system, 195

